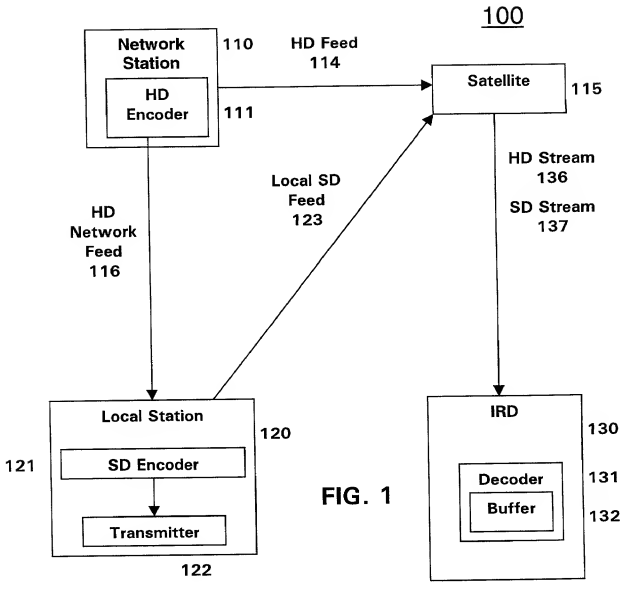
100
Network Station
110
HD Encoder
111
HD Feed
114
Satellite
115
HD Network Feed
116
Local SD Feed
123
HD Stream
136
SD Stream
137
Local Station
120
121
SD Encoder
Transmitter
122
IRD
130
Decoder
131
Buffer
132

FIG. 1

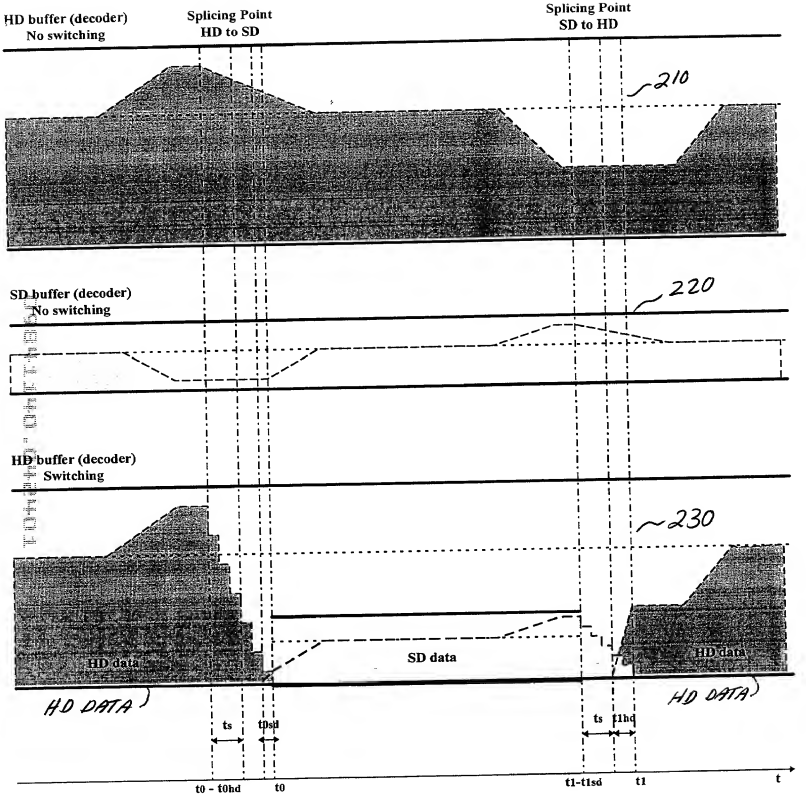
HD buffer (decoder)
No switching
Splicing Point
HD to SD
Splicing Point
SD to HD
210
SD buffer (decoder)
No switching
220
HD buffer (decoder)
Switching
230
HD data
SD data
HD data
HD DATA
HD DATA
ts
tHsd
ts
tHd
t0 - t0hd
t0
t1-t1sd
t1
t

FIGURE 2

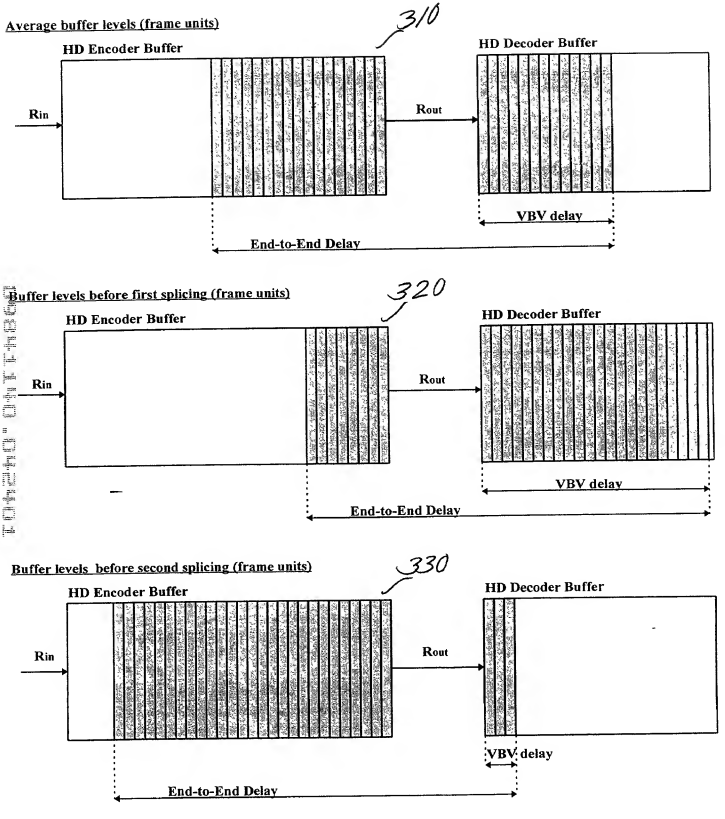
Average buffer levels (frame units)
310
HD Encoder Buffer
HD Decoder Buffer
Rin
Rout
VBV delay
End-to-End Delay
Buffer levels before first splicing (frame units)
320
HD Encoder Buffer
HD Decoder Buffer
Rin
Rout
VBV delay
End-to-End Delay
Buffer levels before second splicing (frame units)
330
HD Encoder Buffer
HD Decoder Buffer
Rin
Rout
VBV delay
End-to-End Delay

FIGURE 3